



Matt Blunt, Governor • Doyle Childers, Director

DEPARTMENT OF NATURAL RESOURCES

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FEB - 1 2006

Mr. Robert L. Davis, Colonel
U.S. Army, Chief of Staff - FLW
U.S. Army MANSCEN and Fort Leonard Wood
ATZT-DPW-EE
1334 First Street
Ft. Leonard Wood, MO 64573,

Re: U.S. Army MANSCEN and Fort Leonard Wood, 169-0004
Permit Numbers: **OP2006-005 through 2006-010**

Dear Colonel Davis:

Enclosed with this letter is your operating permit. Please review this document carefully. Operation of your installation in accordance with the rules and regulations cited in this document is necessary for continued compliance.

If you have any questions or need additional information regarding this permit, please contact the Air Pollution Control Program at (573) 751-4817, or you may write to the Department of Natural Resources' Air Pollution Control Program, P.O. Box 176, Jefferson City, MO 65102.

Sincerely,

AIR POLLUTION CONTROL PROGRAM

for Michael J. Stansfield, P.E.
Permit Section Chief

MJS:mvb

Enclosures

c: Ms. Tamara Freeman, U.S. EPA Region VII
Ms. Amy Baker, Kansas City Regional Office
PAMS File: 169-0004-020A



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Missouri Department of Natural Resources
Air Pollution Control Program

PERMIT TO OPERATE

Under the authority of RSMo 643 and the Federal Clean Air Act the applicant is authorized to operate the air contaminant source(s) described below, in accordance with the laws, rules, and conditions set forth here in.

Operating Permit Number: OP2006-007

Expiration Date: 01/31/2011

Installation ID Number: 169-0004

Project Number: 169-0004-020C

Installation Name and Address

U.S. Army MANSCEN and Fort Leonard Wood
ATZT-DPW-EE
1334 First Street
Ft. Leonard Wood, MO 64573
Pulaski County

Parent Company's Name and Address


Training & Document Command
ATBO-SE
Fort Monroe, VA 23651-5000

Installation Description:

U.S. Army MANSCEN and Fort Leonard Wood is a federal military installation in Pulaski County. The operating permit is divided into six documents. This document includes the storage vessels.

FEB - 1 2006

Effective Date



Director or Designee
Department of Natural Resources

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I. Installation Description and Equipment Listing

INSTALLATION DESCRIPTION

U.S. Army MANSCEN and Fort Leonard Wood is a federal military installation in Pulaski County. The installation is an existing major source of particulate matter less than or equal to ten microns (PM₁₀), sulfur oxides (SO_x), nitrogen oxides (NO_x), ozone (VOC) and carbon monoxide (CO).

The installation's primary purpose is to train enlisted and officer personnel of all branches of service in basic combat training, military engineering, and motor vehicle operations. The installation includes power plants, rock crushing plants, an asphalt plant, storage vessels, a chemical defense training facility, chemical and military police training schools, dry cleaners, and associated equipment.

Reported Air Pollutant Emissions, tons per year							
Year	Particulate Matter ≤ Ten Microns (PM ₁₀)	Sulfur Oxides (SO _x)	Nitrogen Oxides (NO _x)	Volatile Organic Compounds (VOC)	Carbon Monoxide (CO)	Lead (Pb)	Hazardous Air Pollutants (HAPs)
2000	82.88	5.82	73.36	135.86	470.67	--	0.66
2001	81.82	11.39	86.61	114.73	721.41	--	0.09
2002	29.41	3.53	94.46	135.89	168.69	--	0.09
2003	96.14	25.9	116.88	203.81	670.69	--	0.02
2004	155.96	29.07	62.74	158.73	1333.7	--	0.03

EMISSION UNITS WITH LIMITATIONS

The following list provides a description of the equipment at this installation which emit air pollutants and which are identified as having unit-specific emission limitations.

Emission Unit #	Description of Emission Unit
EU2010	Fuel Storage Tanks

EMISSION UNITS WITHOUT LIMITATIONS

The following list provides a description of the equipment that does not have unit specific limitations at the time of permit issuance.

Description of Emission Source
Building 185 Fuel Oil Storage Tank (1961, 12,000 gal)
Building 311 Fuel Oil Storage Tank, (1965, 25,000 gal)
Building 311 Fuel Oil Storage Tank, (1965, 25,000 gal)
Building 315 Fuel Oil Storage Tank (1971, 500 gal)
Building 401 Fuel Oil Storage Tank (1941, 1000 gal)
Building 404 Fuel Oil Storage Tank (1961, 1000 gal)
Building 444 Fuel Oil Storage Tank (1941, 500 gal)
Building 493 Fuel Oil Storage Tank (1968, 4000 gal)
Building 498 Fuel Oil Storage Tank (1964, 3000 gal)
Building 567 Fuel Oil Storage Tank (1966, 1000 gal)
Building 568 Fuel Oil Storage Tank (1966, 2000 gal)
Building 590 Fuel Oil Storage Tank (1941, 1000 gal)
Building 599 Fuel Oil Storage Tank (1941, 10,000 gal)

Building 645 Fuel Oil Storage Tank (1961, 28,400 gal)
Building 645 Fuel Oil Storage Tank (1961, 28,400 gal)
Building 645 Fuel Oil Storage Tank (1979, 42,700 gal)
Building 664 Fuel Oil Storage Tank (1966, 1000 gal)
Building 669 Fuel Oil Storage Tank (1966, 1000 gal)
Building 672 Fuel Oil Storage Tank (1964, 1000 gal)
Building 673 Fuel Oil Storage Tank (1964, 1000 gal)
Building 680 Fuel Oil Storage Tank (1964, 1000 gal)
Building 681 Fuel Oil Storage Tank (1964, 1000 gal)
Building 686 Fuel Oil Storage Tank (1966, 1000 gal)
Building 701 Fuel Oil Storage Tank (1966, 1000 gal)
Building 704 Fuel Oil Storage Tank (1966, 1000 gal)
Building 706 Fuel Oil Storage Tank (1966, 1000 gal)
Building 711 Fuel Oil Storage Tank (1966, 1000 gal)
Building 713 Fuel Oil Storage Tank (1966, 2000 gal)
Building 714 Fuel Oil Storage Tank (1966, 1000 gal)
Building 716 Fuel Oil Storage Tank (1966, 1000 gal)
Building 717 Fuel Oil Storage Tank (1966, 1000 gal)
Building 718 Fuel Oil Storage Tank (1966, 1000 gal)
Building 721 Fuel Oil Storage Tank (1966, 1000 gal)
Building 722 Fuel Oil Storage Tank (1966, 2000 gal)
Building 723 Fuel Oil Storage Tank (1966, 1000 gal)
Building 725 Fuel Oil Storage Tank (1966, 1000 gal)
Building 727 Fuel Oil Storage Tank (1966, 1000 gal)
Building 745 Fuel Oil Storage Tank (1965, 40,000 gal)
Building 745 Fuel Oil Storage Tank (1965, 40,610 gal)
Building 745 Fuel Oil Storage Tank (1965, 40,610 gal)
Building 758 Fuel Oil Storage Tank (1966, 1000 gal)
Building 761 Fuel Oil Storage Tank (1966, 1000 gal)
Building 772 Fuel Oil Storage Tank (1966, 3000 gal)
Building 773 Used Oil Storage Tank (1992, 500 gal)
Building 780 Fuel Oil Storage Tank (1966, 3000 gal)
Building 790 Fuel Oil Storage Tank (1966, 1000 gal)
Building 793 Fuel Oil Storage Tank (1966, 1000 gal)
Building 797 Fuel Oil Storage Tank (1966, 1000 gal)
Building 852 Fuel Oil Storage Tank (1966, 1000 gal)
Building 872 Used Oil Storage Tank (1992, 500 gal)
Building 872 Fuel Oil Storage Tank (1966, 3000 gal)
Building 873 Fuel Oil Storage Tank (1966, 1000 gal)
Building 880 Fuel Oil Storage Tank (1966, 3000 gal)
Building 881 Fuel Oil Storage Tank (1966, 1000 gal)
Building 950 Used Oil Storage Tank (1993, 4000 gal)
Building 1021 Fuel Oil Storage Tank (1971, 47,080 gal)
Building 1021 Fuel Oil Storage Tank (1971, 47,080 gal)
Building 1134 Fuel Oil Storage Tank (1960, 1000 gal)
Building 1230 Fuel Oil Storage Tank (1960, 1000 gal)
Building 1360 Fuel Oil Storage Tank (1941, 500 gal)
Building 1361 Fuel Oil Storage Tank (1941, 500 gal)
Building 1367 Fuel Oil Storage Tank (1941, 500 gal)

Building 1368 Fuel Oil Storage Tank (1941, 500 gal)
Building 1371 Fuel Oil Storage Tank (1941, 500 gal)
Building 1372 Fuel Oil Storage Tank (1941, 500 gal)
Building 1390 Fuel Oil Storage Tank (1977, 500 gal)
Building 1391 Fuel Oil Storage Tank (1967, 20,000 gal)
Building 1497 Fuel Oil Storage Tank (1941, 1000 gal)
Building 1549 Fuel Oil Storage Tank (1960, 1000 gal)
Building 1588 Fuel Oil Storage Tank (1941, 1000 gal)
Building 1601 Sodium Hydroxide Tank (1993, 6000 gal)
Building 1601 Aluminum Sulfate Tank (1999, 6000 gal)
Building 1614 Fuel Oil Storage Tank (1961, 1000 gal)
Building 2051 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2102 Fuel Oil Storage Tank (1942, 1000 gal)
Building 2103 Fuel Oil Storage Tank (1942, 1000 gal)
Building 2111 Fuel Oil Storage Tank (1941, 500 gal)
Building 2142 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2150 Fuel Oil Storage Tank (1941, 500 gal)
Building 2151 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2153 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2157 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2172 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2181 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2182 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2183 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2191 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2192 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2196 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2197 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2200 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2201 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2204 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2210 Used Oil Storage Tank (1992, 500 gal)
Building 2215 Fuel Oil Storage Tank (1942, 1000 gal)
Building 2216 Fuel Oil Storage Tank (1942, 1000 gal)
Building 2227 Fuel Oil Storage Tank (1970, 1000 gal)
Building 2240 Fuel Oil Storage Tank (1978, 1000 gal)
Building 2250 Fuel Oil Storage Tank (1977, 1000 gal)
Building 2272 Fuel Oil Storage Tank (1978, 1000 gal)
Building 2273 Fuel Oil Storage Tank (1980, 1000 gal)
Building 2282 Fuel Oil Storage Tank (1969, 1000 gal)
Building 2308 Fuel Oil Storage Tank (1941, 10,000 gal)
Building 2314 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2319 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2322 Fuel Oil Storage Tank (1941, 2000 gal)
Building 2332 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2337 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2351 Fuel Oil Storage Tank (1966, 9560 gal)
Building 2351 Fuel Oil Storage Tank (1966, 9560 gal)
Building 2369 Diesel Storage Tank (1978, 2500 gal)

Building 2369 Fuel Oil Storage Tank No. 1 (1978, 90,000 gal)
Building 2369 Fuel Oil Storage Tank No. 2 (1978, 90,000 gal)
Building 2391 Fuel Oil Storage Tank (1981, 1000 gal)
Building 2399 Fuel Oil Storage Tank (1964, 2000 gal)
Building 2555 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2581 Used Oil Storage Tank (1995, 5000 gal)
Building 2581 Used Oil Storage Tank (1995, 5000 gal)
Building 2558 Fuel Oil Storage Tank (1941, 1000 gal)
Building 2845 Fuel Oil Storage Tank (1967, 1000 gal)
Building 4053 Diesel Fuel Storage Tank (1983, 56,448 gal)
Building 4054 Fuel Oil Storage Tank (1983, 71,526 gal)
Building 4055 (EMPTY) Storage Tank (1983, 8484 gal)
Building 4056 Gasoline Fuel Storage Tank (1983, 37,590 gal)
Building 4057 Fuel Oil Storage Tank (1983, 534,072 gal)
Building 4058 Fuel Oil Storage Tank (1983, 534,072 gal)
Building 4100 Fuel Oil Storage Tank (1965, 5000 gal)
Building 4101 Fuel Oil Storage Tank (1966, 1000 gal)
Building 4104 Fuel Oil Storage Tank (1966, 8000 gal)
Building 4190 Fuel Oil Storage Tank (1980, 1000 gal)
Building 4191 Fuel Oil Storage Tank (1982, 1000 gal)
Building 4192 Fuel Oil Storage Tank (1980, 1000 gal)
Building 4273 Fuel Oil Storage Tank (1978, 10,000 gal)
Building 5047 Fuel Oil Storage Tank (1970, 4000 gal)
Building 5053 Used Oil Storage Tank (1992, 1000 gal)
Building 5053 Used Oil Storage Tank (1992, 1500 gal)
Building 5056 Fuel Oil Storage Tank (1967, 1000 gal)
Building 5059 Fuel Oil Storage Tank (1967, 2000 gal)
Building 5064 Fuel Oil Storage Tank (1980, 1000 gal)
Building 5069 Fuel Oil Storage Tank (1980, 1000 gal)
Building 5070 Fuel Oil Storage Tank (1976, 10,000 gal)
Building 5074 Used Oil Storage Tank (1993, 1000 gal)
Building 5074 Fuel Oil Storage Tank (1981, 10,000 gal)
Building 5138 Used Oil Storage Tank (1995, 1000 gal)
Building 5265 Used Oil Storage Tank (1985, 4000 gal)
Building 5265 Used Oil Storage Tank (1985, 4000 gal)
Building 5265 Used Oil Storage Tank (1985, 4000 gal)
Building 5265 Used Oil Storage Tank (1985, 4000 gal)
Building 5267 Diesel Fuel Aboveground Storage Tank No. 1
Building 5267 Diesel Fuel Aboveground Storage Tank No. 2
Building 5267 Gasoline – RVP 7 Aboveground Storage Tank No. 3
Building 5267 Gasoline – RVP 7 Aboveground Storage Tank No. 4
Building 5285 Fuel Oil Storage Tank (1981, 500 gal)
Building 5421 Fuel Oil Storage Tank (1968, 500 gal)
Building 5431 Fuel Oil Storage Tank (1968, 500 gal)
Building 5441 Fuel Oil Storage Tank (1968, 500 gal)
Building 5451 Fuel Oil Storage Tank (1968, 500 gal)
Building 6501 Fuel Oil Storage Tank (1955, 10,000 gal)
Building 6505 Fuel Oil Storage Tank (1970, 500 gal)
Building 6824 Fuel Oil Storage Tank (1978, 10,000 gal)

Building 8021 Fuel Oil Storage Tank (1961, 10,000 gal)
Building 8041 Fuel Oil Storage Tank (1961, 10,000 gal)
Building 8370 Fuel Oil Storage Tank (1941, 1000 gal)
Building 8478 Fuel Oil Storage Tank (1958, 10,000 gal)
Building 9606 Fuel Oil Storage Tank (1963, 10,000 gal)
Building 10300 Fuel Oil Storage Tank (1966, 1000 gal)
Building 10301 Fuel Oil Storage Tank (1967, 1000 gal)
Building 10302 Fuel Oil Storage Tank (1967, 1000 gal)
Building 10303 Fuel Oil Storage Tank (1967, 1000 gal)
Building 12700 Used Oil Storage Tank (1993, 1000 gal)
Building TA244 Diesel Fuel Storage Tank (1992, 5000 gal)
Building TA244 Diesel Fuel Storage Tank (1992, 5000 gal)
Building TA244 Diesel Fuel Storage Tank (1992, 5000 gal)
CDTF Diesel Storage Tank (1999, 700 gal)
CDTF Diesel Storage Tank (1999, 2500 gal)
CDTF Diesel Storage Tank (1999, 250 gal)
Asphalt Plant Fuel Oil Storage Tank (1995, 4000 gal)

DOCUMENTS INCORPORATED BY REFERENCE

These documents have been incorporated by reference into this permit.

1. Air Pollution Control Program Construction Permit #062003-015
2. Air Pollution Control Program Construction Permit #082002-024A
3. Air Pollution Control Program Construction Permit #082002-024
4. Air Pollution Control Program Construction Permit #022002-009
5. Air Pollution Control Program Construction Permit #052001-011
6. Air Pollution Control Program Construction Permit #052001-010
7. Air Pollution Control Program Construction Permit #052000-004A
8. Air Pollution Control Program Construction Permit #0794-011
9. Air Pollution Control Program Construction Permit #0392-011

II. Plant Wide Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements.

Permit Condition PW001

10 CSR 10-6.060

Construction Permits Required

Air Pollution Control Program Construction Permit #0392-011

Air Pollution Control Program Construction Permit #082002-024

Emission Limitation:

If a continuing situation of demonstrated nuisance dust exists where the presence of particulate matter less than ten microns (PM_{10}) in the ambient air exists in quantities and durations that directly or proximately cause or contribute to injury to human, plant, or animal life or health, or to property, or that unreasonably interferes with the enjoyment of life or the use of property, the Director may require USA MANSCEN-FLW to submit a corrective action plan within ten days adequate to timely and significantly mitigate the emission of PM_{10} . USA MANSCEN-FLW shall implement any such plan immediately upon its approval by the Director. Failure to either submit or implement such a plan shall be a violation of this permit

Monitoring/Record Keeping/Reporting:

1. The permittee shall monitor the requested information in an approved corrective action plan. Note: No monitoring is required if a corrective action plan is not required.
2. The permittee shall keep records of the requested information in an approved corrective action plan. Note: No record keeping is required if a corrective action plan is not required.
3. The permittee shall submit a corrective action plan to the Air Pollution Control Program if required by the Director.

Permit Condition PW002

10 CSR 10-6.060

Construction Permits Required

Air Pollution Control Program Construction Permit #082002-024

Equipment and Operation Parameters:

1. USA MANSCEN-FLW shall immediately render inoperable all boilers and/or heaters designed to burn #6 residual oil located in USA MANSCEN-FLW 's Building #645 (EP: FLW 002J, 002K, 002L & 002M).
2. USA MANSCEN-FLW shall immediately render inoperable all woodworking operations located in USA MANSCEN-FLW's Building 1448 (EP: FLW 016).
3. USA MANSCEN-FLW shall immediately render inoperable the hospital waste incinerator (EP: FLW 014) constructed under APCP Permit No. 0590-004.
4. The above removed emission sources may not be operated without first obtaining a New Source Review permit from the APCP.

Permit Condition PW003

10 CSR 10-6.170

Restriction of Particulate Matter to the Ambient Air Beyond the Premises of Origin

Emission Limitation:

1. The permittee shall not cause or allow to occur any handling, transporting or storing of any material; construction, repair, cleaning or demolition of a building or its appurtenances; construction or use of a road, driveway or open area; or operation of a commercial or industrial installation without applying reasonable measures as may be required to prevent, or in a manner which allows or may allow, fugitive particulate matter emissions to go beyond the premises of origin in quantities that the particulate matter may be found on surfaces beyond the property line or origin. The nature or origin of the particulate matter shall be determined to a reasonable degree of certainty by a technique proven to be accurate and approved by the director; or
2. The permittee shall not cause nor allow to occur any fugitive particulate matter emissions to remain visible in the ambient air beyond the property line of origin.
3. Should it be determined that noncompliance has occurred, the director may require reasonable control measures as may be necessary.

Monitoring/Record Keeping:

The permittee shall conduct and record inspections of its facilities sufficient to determine compliance with this regulation, if required by the Director. If a violation of this regulation is discovered, the source shall undertake corrective action to eliminate the violation.

Reporting:

The permittee shall report any deviations/exceedances of this permit condition using the semi-annual monitoring report and annual compliance certification to the Air Pollution Control Program Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, as required by 10 CSR 10-6.065(6)(C)1.C.(III).

III. Emission Unit Specific Emission Limitations

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements.

EU2010 Fuel Storage Tanks		
Emission Unit	Description	
EU2010	Bldg 311 Diesel Fuel UST (1990, 6000 gal) Bldg 645 Diesel Fuel UST (1989, 1000 gal) Bldg 671 Diesel Fuel AST (1990, 10,000 gal) Bldg 672 Heating Used Oil AST (1992, 500 gal) Bldg 680 Heating Used Oil AST (1997, 250 gal) Bldg 681 Heating Used Oil AST (1997, 250 gal) Bldg 745 Diesel Fuel UST (1990, 2500 gal) Bldg 771 Diesel Fuel AST No. 1 (1990, 10,000 gal) Bldg 771 Diesel Fuel AST No. 2 (1990, 10,000 gal) Bldg 805 Fuel Oil - Heating UST (1984, 5000 gal) Bldg 882 JP-8 Fuel AST (1992, 10,000 gal) Bldg 987 Diesel Fuel AST (1993 10,000 gal) Bldg 988 Diesel Fuel AST (1993 10,000 gal) Bldg 1021 Diesel Fuel AST (1992, 500 gal) Bldg 1383 Heating Used Oil AST (1992, 500 gal) Bldg 1390 Diesel Fuel UST No. 1 (1992, 6000 gal) Bldg 1390 Gasoline - RVP 7 UST No. 2 (1992, 6000 gal) Bldg 2210 Diesel Fuel AST No. 1 (1989, 10,000 gal) Bldg 2210 Gasoline - RVP 7 AST No. 2 (1989, 10,000 gal) Bldg 2210 Gasoline - RVP 7 AST No. 3 (1989, 10,000 gal) Bldg 2553 Heating Used Oil AST (1995, 500 gal) Bldg 2581 Fuel Oil - Heating AST No. 1 (1995, 5000 gal) Bldg 4052 Fuel Oil - Heating UST (1983, 500 gal) Bldg 4052 Fuel Oil - Heating UST (1993, 1000 gal) Bldg 4052 Fuel Oil - Heating UST (1993, 2000 gal) Bldg 5021 JP-8 Fuel AST No. 1 (1990, 10,000 gal) Bldg 5021 JP-8 Fuel AST No. 2 (1990, 10,000 gal)	Bldg 5021 JP-8 Fuel AST No. 3 (1990, 10,000 gal) Bldg 5074 Diesel Fuel AST No. 1 (1993, 1000 gal) Bldg 5074 Gasoline - RVP 7 AST (1993, 1000 gal) Bldg 5086 Diesel Fuel AST No. 1 (1992, 5000 gal) Bldg 5086 Gasoline - RVP 7 AST No. 2 (1992, 5000 gal) Bldg 5086 Diesel Fuel AST (1992, 10,000 gal) Bldg 5122 Fuel Oil - Heating UST (1983, 1000 gal) Bldg 5124 Fuel Oil - Heating UST (1986, 500 gal) Bldg 5125 Fuel Oil - Heating UST (1986, 500 gal) Bldg 5130 Fuel Oil - Heating UST (1983, 1000 gal) Bldg 5138 Diesel Fuel AST (1995, 10,000 gal) Bldg 5138 Diesel Fuel AST (1995, 2000 gal) Bldg 5267 Diesel Fuel AST No. 1 (1993, 12,000 gal) Bldg 5267 Diesel Fuel AST No. 2 (1993, 12,000 gal) Bldg 5267 Gasoline - RVP 7 AST No. 3 (1993, 12,000 gal) Bldg 5267 Gasoline - RVP 7 AST No. 4 (1993, 12,000 gal) Bldg 10200 Diesel Fuel AST (1984, 500 gal) Bldg 10225 Gasoline - RVP 7 AST No. 1 (1988, 500 gal) Bldg 10225 Gasoline - RVP 7 AST No. 2 (1988, 500 gal) Bldg 12310 Fuel Oil - Heating UST (1983, 1000 gal) Bldg 12410 Fuel Oil - Heating UST (1983, 1000 gal) Bldg 12710 Fuel Oil - Heating UST (1983, 1000 gal) Bldg 13602 Fuel Oil - Heating UST (1983, 1000 gal) Bldg TA207 Diesel Fuel AST (1989, 10,000 gal) Bldg TA207 JP-8 Fuel AST (1994, 1000 gal) Bldg TA401 Gasoline - RVP 7 AST No. 1 (1999, 1000 gal)

Permit Condition EU2010-001

10 CSR 10-6.060

Construction Permits Required

Air Pollution Control Program Construction Permit #052001-011

Emission Limitation:

1. U.S. Army Maneuver Support Center and Fort Leonard Wood (USAMSC-FLW) shall not discharge into the atmosphere from the storage tanks designated as EU2010, Volatile Organic Compounds (VOC) in excess of 25.0 tons in any consecutive 12-month period.
2. This emission limitation only applies to the VOC emitting storage tanks designated as EU2010. The type of fuel(s) listed in each tank description is for clarification purposes only and does not restrict USAMSC-FLW's ability to vary or change the type of fuel(s) and/or other liquids stored in any of these tanks in the future.

Monitoring/Record Keeping:

1. USAMSC-FLW shall maintain an accurate record of the emissions of VOC's emitted into the atmosphere from the storage tanks designated as EU2010 and shall record the monthly and 12-month totals of VOC emissions from these sources.
2. USAMSC-FLW shall use Attachment K, *Monthly VOC Tracking Record – Fuel Storage Tanks* or an equivalent form for this purpose.
3. USAMSC-FLW shall maintain these records on-site for not less than five years.
4. All such records required by this permit shall be immediately made available to any Missouri Department of Natural Resources; personnel upon request.
5. The record keeping requirements only apply to the VOC emitting storage tanks designated as EU2010. The type of fuel(s) listed in each tank description is for clarification purposes only and does not restrict USAMSC-FLW's ability to vary or change the type of fuel(s) and/or other liquids stored in any of these tanks in the future.

Reporting:

USAMSC-FLW shall report to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than 15 days after the end of each month, if the 12-month cumulative total records show that the above sources exceeded the emission limitation.

IV. Core Permit Requirements

The installation shall comply with each of the following emission limitations. Consult the appropriate sections in the Code of Federal Regulations (CFR) and Code of State Regulations (CSR) for the full text of the applicable requirements.

10 CSR 10-3.030, Open Burning Restrictions

1. The permittee shall not conduct, cause, permit or allow a salvage operation, the disposal of trade wastes or burning of refuse by open burning.
2. Exception - Open burning of trade waste or vegetation may be permitted only when it can be shown that open burning is the only feasible method of disposal or an emergency exists which requires open burning.
3. Any person intending to engage in open burning shall file a request to do so with the director. The request shall include the following:
 - a) The name, address and telephone number of the person submitting the application; The type of business or activity involved; A description of the proposed equipment and operating practices, the type, quantity and composition of trade wastes and expected composition and amount of air contaminants to be released to the atmosphere where known;
 - b) The schedule of burning operations;
 - c) The exact location where open burning will be used to dispose of the trade wastes;
 - d) Reasons why no method other than open burning is feasible; and
 - e) Evidence that the proposed open burning has been approved by the fire control authority which has jurisdiction.
4. Upon approval of the open burning permit application by the director, the person may proceed with the operation under the terms of the open burning permit. Be aware that such approval shall not exempt U.S. Army MANSCEN and Fort Leonard Wood from the provisions of any other law, ordinance or regulation.
5. The permittee shall maintain files with letters from the director approving the open burning operation and previous DNR inspection reports.

10 CSR 10-3.090, Restriction of Emission of Odors

No person may cause, permit or allow the emission of odorous matter in concentrations and frequencies or for durations that odor can be perceived when one volume of odorous air is diluted with seven volumes of odor-free air for two separate trials not less than 15 minutes apart within the period of one hour.

This requirement is not federally enforceable.

10 CSR 10-6.050, Start-up, Shutdown and Malfunction Conditions

1. In the event of a malfunction, which results in excess emissions that exceed one hour, the permittee shall submit to the director within two business days in writing the following information:
 - a) Name and location of installation;
 - b) Name and telephone number of person responsible for the installation;
 - c) Name of the person who first discovered the malfunction and precise time and date that the malfunction was discovered.
 - d) Identity of the equipment causing the excess emissions;
 - e) Time and duration of the period of excess emissions;
 - f) Cause of the excess emissions;
 - g) Air pollutants involved;
 - h) Best estimate of the magnitude of the excess emissions expressed in the units of the applicable requirement and the operating data and calculations used in estimating the magnitude;
 - i) Measures taken to mitigate the extent and duration of the excess emissions; and

- j) Measures taken to remedy the situation that caused the excess emissions and the measures taken or planned to prevent the recurrence of these situations.
2. The permittee shall submit the paragraph (1.) information list to the director in writing at least ten days prior to any maintenance, start-up or shutdown, which is expected to cause an excessive release of emissions that exceed one hour. If notice of the event cannot be given ten days prior to the planned occurrence, it shall be given as soon as practicable prior to the release. If an unplanned excess release of emissions exceeding one hour occurs during maintenance, start-up or shutdown, the director shall be notified verbally as soon as practical during normal working hours and no later than the close of business of the following working day. A written notice shall follow within ten working days.
3. Upon receipt of a notice of excess emissions issued by an agency holding a certificate of authority under section 643.140, RSMo, the permittee may provide information showing that the excess emissions were the consequence of a malfunction, start-up or shutdown. The information, at a minimum, should be the paragraph (1.) list and shall be submitted not later than 15 days after receipt of the notice of excess emissions. Based upon information submitted by the permittee or any other pertinent information available, the director or the commission shall make a determination whether the excess emissions constitute a malfunction, start-up or shutdown and whether the nature, extent and duration of the excess emissions warrant enforcement action under section 643.080 or 643.151, RSMo.
4. Nothing in this rule shall be construed to limit the authority of the director or commission to take appropriate action, under sections 643.080, 643.090 and 643.151, RSMo to enforce the provisions of the Air Conservation Law and the corresponding rule.
5. Compliance with this rule does not automatically absolve the permittee of liability for the excess emissions reported.

10 CSR 10-6.060, Construction Permits Required

The permittee shall not commence construction, modification, or major modification of any installation subject to this rule, begin operation after that construction, modification, or major modification, or begin operation of any installation which has been shut down longer than five years without first obtaining a permit from the permitting authority.

10 CSR 10-6.065, Operating Permits

The permittee shall file for renewal of this operating permit no sooner than eighteen months, nor later than six months, prior to the expiration date of this operating permit. The permittee shall retain the most current operating permit issued to this installation on-site and shall immediately make such permit available to any Missouri Department of Natural Resources' personnel upon request.

10 CSR 10-6.080, Emission Standards for Hazardous Air Pollutants

40 CFR Part 61 Subpart M, National Emission Standard for Asbestos

1. The permittee shall follow the procedures and requirements of 40 CFR Part 61, Subpart M for any activities occurring at this installation which would be subject to provisions for 40 CFR Part 61, Subpart M, National Emission Standard for Asbestos.
2. The permittee shall conduct monitoring to demonstrate compliance with registration, certification, notification, and Abatement Procedures and Practices standards as specified in 40 CFR Part 61, Subpart M.

10 CSR 10-6.100, Alternate Emission Limits

Proposals for alternate emission limitations shall be submitted on Alternate Emission Limits Permit forms provided by the department. An installation owner or operator must obtain an Alternate Emission Limits Permit in accordance with 10 CSR 10-6.100 before alternate emission limits may become effective.

10 CSR 10-6.110, Submission of Emission Data, Emission Fees and Process Information

1. The permittee shall complete and submit an Emission Inventory Questionnaire (EIQ) in accordance with the requirements outlined in this rule.
2. The permittee shall pay an annual emission fee per ton of regulated air pollutant emitted according to the schedule in the rule. This fee is an emission fee assessed under authority of RSMo. 643.079 to satisfy the requirements of the Federal Clean Air Act, Title V.
3. The fees shall be due April 1 each year for emissions produced during the previous calendar year. The fees shall be payable to the Department of Natural Resources and shall be accompanied by the Emissions Inventory Questionnaire (EIQ) form or equivalent approved by the director.

10 CSR 10-6.130, Controlling Emissions During Episodes of High Air Pollution Potential

This rule specifies the conditions that establish an air pollution alert (yellow/orange/red/purple), or emergency (maroon) and the associated procedures and emission reduction objectives for dealing with each. The permittee shall submit an appropriate emergency plan if required by the Director.

10 CSR 10-6.150, Circumvention

The permittee shall not cause or permit the installation or use of any device or any other means which, without resulting in reduction in the total amount of air contaminant emitted, conceals or dilutes an emission or air contaminant which violates a rule of the Missouri Air Conservation Commission.

10 CSR 10-6.180, Measurement of Emissions of Air Contaminants

1. The director may require any person responsible for the source of emission of air contaminants to make or have made tests to determine the quantity or nature, or both, of emission of air contaminants from the source. The director may specify testing methods to be used in accordance with good professional practice. The director may observe the testing. All tests shall be performed by qualified personnel.
2. The director may conduct tests of emissions of air contaminants from any source. Upon request of the director, the person responsible for the source to be tested shall provide necessary ports in stacks or ducts and other safe and proper sampling and testing facilities, exclusive of instruments and sensing devices as may be necessary for proper determination of the emission of air contaminants.
3. The director shall be given a copy of the test results in writing and signed by the person responsible for the tests.

10 CSR 10-6.250, Asbestos Abatement Projects – Certification, Accreditation, and Business Exemption Requirements

The permittee shall conduct all asbestos abatement projects within the procedures established for certification and accreditation by 10 CSR 10-6.250. This rule requires individuals who work in asbestos abatement projects to be certified by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires training providers who offer training for asbestos abatement occupations to be accredited by the Missouri Department of Natural Resources Air Pollution Control Program. This rule requires persons who hold exemption status from certain requirements of this rule to allow the department to monitor training provided to employees. Each individual who works in asbestos abatement projects must first obtain certification for the appropriate occupation from the department. Each person who offers training for asbestos abatement occupations must first obtain accreditation from the department. Certain business entities that meet the requirements for state-approved exemption status must allow the department to monitor training classes provided to employees who perform asbestos abatement.

10 CSR 10-6.280, Compliance Monitoring Usage

1. The permittee is not prohibited from using the following in addition to any specified compliance methods for the purpose of submission of compliance certificates:

- a) Monitoring methods outlined in 40 CFR Part 64;
 - b) Monitoring method(s) approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Any other monitoring methods approved by the director.
2. Any credible evidence may be used for the purpose of establishing whether a permittee has violated or is in violation of any such plan or other applicable requirement. Information from the use of the following methods is presumptively credible evidence of whether a violation has occurred by a permittee:
- a) Monitoring methods outlined in 40 CFR Part 64;
 - b) A monitoring method approved for the permittee pursuant to 10 CSR 10-6.065, "Operating Permits", and incorporated into an operating permit; and
 - c) Compliance test methods specified in the rule cited as the authority for the emission limitations.
3. The following testing, monitoring or information gathering methods are presumptively credible testing, monitoring, or information gathering methods:
- a) Applicable monitoring or testing methods, cited in:
 1. 10 CSR 10-6.030, "Sampling Methods for Air Pollution Sources";
 2. 10 CSR 10-6.040, "Reference Methods";
 3. 10 CSR 10-6.070, "New Source Performance Standards";
 4. 10 CSR 10-6.080, "Emission Standards for Hazardous Air Pollutants"; or
 - b) Other testing, monitoring, or information gathering methods, if approved by the director, that produce information comparable to that produced by any method listed above.

Title VI – 40 CFR Part 82, Protection of Stratospheric Ozone

1. The permittee shall comply with the standards for labeling of products using ozone-depleting substances pursuant to 40 CFR Part 82, Subpart E:
 - a) All containers in which a class I or class II substance is stored or transported, all products containing a class I substance, and all products directly manufactured with a class I substance must bear the required warning statement if it is being introduced into interstate commerce pursuant to §82.106.
 - b) The placement of the required warning statement must comply with the requirements pursuant to §82.108.
 - c) The form of the label bearing the required warning statement must comply with the requirements pursuant to §82.110.
 - d) No person may modify, remove, or interfere with the required warning statement except as described in §82.112.
2. The permittee shall comply with the standards for recycling and emissions reduction pursuant to 40 CFR part 82, Subpart F, except as provided for motor vehicle air conditioners (MVACs) in Subpart B:
 - a) Persons opening appliances for maintenance, service, repair, or disposal must comply with the required practices pursuant to §82.156.
 - b) Equipment used during the maintenance, service, repair, or disposal of appliances must comply with the standards for recycling and recovery equipment pursuant to §82.158.
 - c) Persons performing maintenance, service, repair, or disposal of appliances must be certified by an approved technician certification program pursuant to §82.161.
 - d) Persons disposing of small appliances, MVACs, and MVAC-like appliances must comply with record keeping requirements pursuant to §82.166. ("MVAC-like" appliance as defined at §82.152).
 - e) Persons owning commercial or industrial process refrigeration equipment must comply with the leak repair requirements pursuant to §82.156.
 - f) Owners/operators of appliances normally containing 50 or more pounds of refrigerant must keep records of refrigerant purchased and added to such appliances pursuant to §82.166.

3. If the permittee manufactures, transforms, imports, or exports a class I or class II substance, the permittee is subject to all the requirements as specified in 40 CFR part 82, Subpart A, Production and Consumption Controls.
4. If the permittee performs a service on motor (fleet) vehicles when this service involves ozone-depleting substance refrigerant (or regulated substitute substance) in the motor vehicle air conditioner (MVAC), the permittee is subject to all the applicable requirements as specified in 40 CFR part 82, Subpart B, Servicing of Motor Vehicle Air conditioners. The term "motor vehicle" as used in Subpart B does not include a vehicle in which final assembly of the vehicle has not been completed. The term "MVAC" as used in Subpart B does not include the air-tight sealed refrigeration system used as refrigerated cargo, or system used on passenger buses using HCFC-22 refrigerant.

The permittee shall be allowed to switch from any ozone-depleting substance to any alternative that is listed in the Significant New Alternatives Program (SNAP) promulgated pursuant to 40 CFR part 82, Subpart G, Significant New Alternatives Policy Program. *Federal Only - 40 CFR part 82*

V. General Permit Requirements

Permit Duration

10 CSR 10-6.065(6)(C)1.B.

This permit is issued for a term of five years, commencing on the date of issuance. This permit will expire at the end of this period unless renewed.

General Record Keeping and Reporting Requirements

10 CSR 10-6.065(6)(C)1.C

1. Record Keeping

- a) All required monitoring data and support information shall be retained for a period of at least five years from the date of the monitoring sample, measurement, report or application.
- b) Copies of all current operating and construction permits issued to this installation shall be kept on-site for as long as the permits are in effect. Copies of these permits shall be made immediately available to any Missouri Department of Natural Resources' personnel upon request.

2. Reporting

- a) The permittee shall submit a report of all required monitoring by:
 1. October 1st for monitoring which covers the January through June time period, and
 2. April 1st for monitoring which covers the July through December time period.
 3. Exception: Monitoring requirements which require reporting more frequently than semi annually, the permittee shall report no later than 30 days after the end of the calendar quarter in which the measurements were taken.
- b) Each report must identify any deviations from emission limitations, monitoring, record keeping, reporting, or any other requirements of the permit, this includes deviations or Part 64 exceedances.
- c) All reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102.
- d) Submit supplemental reports as required or as needed. Supplemental reports are required no later than ten days after any exceedance of any applicable rule, regulation or other restriction. All reports of deviations shall identify the cause or probable cause of the deviations and any corrective actions or preventative measures taken.
 1. Notice of any deviation resulting from an emergency (or upset) condition as defined in paragraph (6)(C)7 of 10 CSR 10-6.065 (Emergency Provisions) shall be submitted to the permitting authority either verbally or in writing within two working days after the date on which the emission limitation is exceeded due to the emergency, if you wish to assert an affirmative defense. The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs, or other relevant evidence that indicate an emergency occurred and that you can identify the cause(s) of the emergency. The permitted installation must show that it was operated properly at the time and that during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or requirements in the permit. The notice must contain a description of the emergency, the steps taken to mitigate emissions, and the corrective actions taken.
 2. Any deviation that poses an imminent and substantial danger to public health, safety or the environment shall be reported as soon as practicable.
 3. Any other deviations identified in the permit as requiring more frequent reporting than the permittee's semiannual report shall be reported on the schedule specified in the permit.
 4. These supplemental reports shall be submitted to the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102, no later than ten days after any exceedance of any applicable rule, regulation, or other restriction.

- e) Every report submitted shall be certified by the responsible official, except that, if a report of a deviation must be submitted within ten days after the deviation, the report may be submitted without a certification if the report is resubmitted with an appropriate certification within ten days after that, together with any corrected or supplemental information required concerning the deviation.
- f) The permittee may request confidential treatment of information submitted in any report of deviation.

Risk Management Plans Under Section 112(r)

10 CSR 10-6.065(6)(C)1.D.

The permittee shall comply with the requirements of 40 CFR Part 68, Accidental Release Prevention Requirements. If the permittee has more than a threshold quantity of a regulated substance in process, as determined by 40 CFR Section 68.115, the permittee shall submit a Risk Management Plan in accordance with 40 CFR Part 68 no later than the latest of the following dates:

1. June 21, 1999;
2. Three years after the date on which a regulated substance is first listed under 40 CFR Section 68.130; or
3. The date on which a regulated substance is first present above a threshold quantity in a process.

Severability Clause

10 CSR 10-6.065(6)(C)1.F.

In the event of a successful challenge to any part of this permit, all uncontested permit conditions shall continue to be in force. All terms and conditions of this permit remain in effect pending any administrative or judicial challenge to any portion of the permit. If any provision of this permit is invalidated, the permittee shall comply with all other provisions of the permit.

General Requirements

10 CSR 10-6.065(6)(C)1.G

1. The permittee must comply with all of the terms and conditions of this permit. Any noncompliance with a permit condition constitutes a violation and is grounds for enforcement action, permit termination, permit revocation and re-issuance, permit modification or denial of a permit renewal application.
2. The permittee may not use as a defense in an enforcement action that it would have been necessary for the permittee to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.
3. The permit may be modified, revoked, reopened, reissued or terminated for cause. Except as provided for minor permit modifications, the filing of an application or request for a permit modification, revocation and re-issuance, or termination, or the filing of a notification of planned changes or anticipated noncompliance, will not stay any permit condition.
4. This permit does not convey any property rights of any sort, nor grant any exclusive privilege.
5. The permittee shall furnish to the Air Pollution Control Program, upon receipt of a written request and within a reasonable time, any information that the Air Pollution Control Program reasonably may require to determine whether cause exists for modifying, reopening, reissuing or revoking the permit or to determine compliance with the permit. Upon request, the permittee also shall furnish to the Air Pollution Control Program copies of records required to be kept by the permittee. The permittee may make a claim of confidentiality for any information or records submitted pursuant to 10 CSR 10-6.065(6)(C)1.

Incentive Programs Not Requiring Permit Revisions

10 CSR 10-6.065(6)(C)1.H.

No permit revision will be required for any installation changes made under any approved economic incentive, marketable permit, emissions trading, or other similar programs or processes provided for in this permit.

Compliance Requirements

10 CSR 10-6.065(6)(C)3.

1. Any document (including reports) required to be submitted under this permit shall contain a certification signed by the responsible official.
2. Upon presentation of credentials and other documents as may be required by law, the permittee shall allow authorized officials of the Missouri Department of Natural Resources, or their authorized agents, to perform the following (subject to the installation's right to seek confidential treatment of information submitted to, or obtained by, the Air Pollution Control Program):
 - a) Enter upon the premises where a permitted installation is located or an emissions-related activity is conducted, or where records must be kept under the conditions of this permit;
 - b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;
 - c) Inspect, at reasonable times and using reasonable safety practices, any facilities, equipment (including monitoring and air pollution control equipment), practices, or operations regulated or required under this permit; and
 - d) As authorized by the Missouri Air Conservation Law, Chapter 643, RSMo or the Act, sample or monitor, at reasonable times, substances or parameters for the purpose of assuring compliance with the terms of this permit, and all applicable requirements as outlined in this permit.
3. All progress reports required under an applicable schedule of compliance shall be submitted semiannually (or more frequently if specified in the applicable requirement). These progress reports shall contain the following:
 - a) Dates for achieving the activities, milestones or compliance required in the schedule of compliance, and dates when these activities, milestones or compliance were achieved, and
 - b) An explanation of why any dates in the schedule of compliance were not or will not be met, and any preventative or corrective measures adopted.
4. The permittee shall submit an annual certification that it is in compliance with all of the federally enforceable terms and conditions contained in this permit, including emissions limitations, standards, or work practices. These certifications shall be submitted annually by April 1st, unless the applicable requirement specifies more frequent submission. These certifications shall be submitted to EPA Region VII, 901 North 5th Street, Kansas City, Kansas 66101, as well as the Air Pollution Control Program, Enforcement Section, P.O. Box 176, Jefferson City, MO 65102. All deviations and Part 64 exceedances and excursions must be included in the compliance certifications. The compliance certification shall include the following:
 - a) The identification of each term or condition of the permit that is the basis of the certification,
 - b) The current compliance status, as shown by monitoring data and other information reasonably available to the installation,
 - c) Whether compliance was continuous or intermittent,
 - d) The method(s) used for determining the compliance status of the installation, both currently and over the reporting period, and
 - e) Such other facts as the Air Pollution Control Program will require in order to determine the compliance status of this installation.

Permit Shield

10 CSR 10-6.065(6)(C)6.

1. Compliance with the conditions of this permit shall be deemed compliance with all applicable requirements as of the date that this permit is issued, provided that:
 - a) The applicable requirements are included and specifically identified in this permit; or

- b) The permitting authority, in acting on the permit revision or permit application, determines in writing that other requirements, as specifically identified in the permit, are not applicable to the installation, and this permit expressly includes that determination or a concise summary of it.
2. Be aware that there are exceptions to this permit protection. The permit shield does not affect the following:
 - a) The provisions of section 303 of the Act or section 643.090, RSMo concerning emergency orders,
 - b) Liability for any violation of an applicable requirement which occurred prior to, or was existing at, the time of permit issuance,
 - c) The applicable requirements of the acid rain program,
 - d) The administrator's authority to obtain information, or
 - e) Any other permit or extra-permit provisions, terms or conditions expressly excluded from the permit shield provisions.

Emergency Provisions

10 CSR 10-6.065(6)(C)7.

1. An emergency or upset as defined in 10 CSR 10-6.065(6)(C)7, shall constitute an affirmative defense to an enforcement action brought for noncompliance with technology-based emissions limitations. To establish an emergency- or upset-based defense, the permittee must demonstrate, through properly signed, contemporaneous operating logs or other relevant evidence, the following:
 - a) That an emergency or upset occurred and that the permittee can identify the source of the emergency or upset,
 - b) That the installation was being operated properly,
 - c) That the permittee took all reasonable steps to minimize emissions that exceeded technology-based emissions limitations or requirements in this permit, and
 - d) That the permittee submitted notice of the emergency to the Air Pollution Control Program within two working days of the time when emission limitations were exceeded due to the emergency. This notice must contain a description of the emergency, any steps taken to mitigate emissions, and any corrective actions taken.
2. Be aware that an emergency or upset shall not include noncompliance caused by improperly designed equipment, lack of preventative maintenance, careless or improper operation, or operator error.

Operational Flexibility

10 CSR 10-6.065(6)(C)8.

An installation that has been issued a Part 70 operating permit is not required to apply for or obtain a permit revision in order to make any of the changes to the permitted installation described below if the changes are not Title I modifications, the changes do not cause emissions to exceed emissions allowable under the permit, and the changes do not result in the emission of any air contaminant not previously emitted. The permittee shall notify the Air Pollution Control Program and the Administrator at least seven days in advance of these changes, except as allowed for emergency or upset conditions. Emissions allowable under the permit means a federally enforceable permit term or condition determined at issuance to be required by an applicable requirement that established an emissions limit (including a work practice standard) or a federally enforceable emissions cap that the source has assumed to avoid an applicable requirement to which the source would otherwise be subject.

1. Section 502(b)(10) changes. Changes that, under section 502(b)(10) of the Act, contravene an express permit term may be made without a permit revision, except for changes that would violate applicable requirements of the Act or contravene federally enforceable monitoring (including test methods), record keeping, reporting or compliance requirements of the permit.
 - a) Before making a change under this provision, The permittee shall provide advance written notice to the Air Pollution Control Program and to the Administrator, describing the changes to be made, the date on which the change will occur, and any changes in emission and any permit terms and conditions that are

affected. The permittee shall maintain a copy of the notice with the permit, and this agency shall place a copy with the permit in the public file. Written notice shall be provided to the administrator and this agency at least seven days before the change is to be made. If less than seven days notice is provided because of a need to respond more quickly to these unanticipated conditions, The permittee shall provide notice to the administrator and the permitting authority as soon as possible after learning of the need to make the change.

- b) The permit shield shall not apply to these changes.

Off-Permit Changes

10 CSR 10-6.065(6)(C)9.

1. Except as noted below, The permittee may make any change in its permitted operations, activities or emissions that is not addressed in, constrained by or prohibited by this permit without obtaining a permit revision. Insignificant activities listed in the application, but not otherwise addressed in or prohibited by this permit, shall not be considered to be constrained by this permit for purposes of the off-permit provisions of this section. Off-permit changes shall be subject to the following requirements and restrictions:
 - a) The change must meet all applicable requirements of the Act and may not violate any existing permit term or condition; The permittee may not change a permitted installation without a permit revision, if this change is subject to any requirements under Title IV of the Act or is a Title I modification;
 - b) The permittee must provide written notice of the change to the permitting authority and to the administrator no later than the next annual emissions report. This notice shall not be required for changes that are insignificant activities under paragraph (6)(B)3. of this rule. This written notice shall describe each change, including the date, any change in emissions, pollutants emitted and any applicable requirement that would apply as a result of the change.
 - c) The permittee shall keep a record describing all changes made at the installation that result in emissions of a regulated air pollutant subject to an applicable requirement and the emissions resulting from these changes; and
 - d) The permit shield shall not apply to these changes.

Responsible Official

10 CSR 10-6.020(2)(R)12.

The application utilized in the preparation of this was signed by Scott Murrell, Chief, Energy, Environmental, and Natural Resources Division. U.S. Army MANSCEN and Fort Leonard Wood has provided the Missouri Department of Natural Resources with the appropriate supporting documentation designating Ms. Susan S. Halter, Deputy Garrison Commander, as the responsible official. If this person terminates employment, or is reassigned different duties such that a different person becomes the responsible person to represent and bind the installation in environmental permitting affairs, the owner or operator of this air contaminant source shall notify the Director of the Air Pollution Control Program of the change. Said notification shall be in writing and shall be submitted within 30 days of the change. The notification shall include the name and title of the new person assigned by the source owner or operator to represent and bind the installation in environmental permitting affairs. All representations, agreement to terms and conditions and covenants made by the former responsible person that were used in the establishment of limiting permit conditions on this permit will continue to be binding on the installation until such time that a revision to this permit is obtained that would change said representations, agreements and covenants.

Reopening Permit For Cause

10 CSR 10-6.065(6)(E)6.

In accordance with 10 CSR 10-6.065(6)(E)6.A., this permit may be reopened with cause if:

1. The Missouri Department of Natural Resources (MDNR) receives notice from the Environmental Protection Agency (EPA) that a petition for disapproval of a permit pursuant to 40 CFR § 70.8(d) has been granted, provided that the reopening may be stayed pending judicial review of that determination,
2. The Missouri Department of Natural Resources or EPA determines that the permit contains a material mistake or that inaccurate statements were made which resulted in establishing the emissions limitation standards or other terms of the permit,
3. Additional applicable requirements under the Act become applicable to the installation; however, reopening on this ground is not required if the permit has a remaining term of less than three years, the effective date of the requirement is later than the date on which the permit is due to expire, or the additional applicable requirements are implemented in a general permit that is applicable to the installation and the installation receives authorization for coverage under that general permit,
4. The installation is an affected source under the acid rain program and additional requirements (including excess emissions requirements), become applicable to that source, provided that, upon approval by EPA, excess emissions offset plans shall be deemed to be incorporated into the permit; or
5. The Missouri Department of Natural Resources or EPA determines that the permit must be reopened and revised to assure compliance with applicable requirements.

Statement of Basis

10 CSR 10-6.065(6)(E)1.C.

This permit is accompanied by a statement setting forth the legal and factual basis for the draft permit conditions (including references to applicable statutory or regulatory provisions). This Statement of Basis, while referenced by the permit, is not an actual part of the permit.

This attachment may be used to help meet the record keeping requirements of Permit Condition PW003.

[illegible]

Attachment E

There are no combustion units associated with this permit. However, for permit consistency throughout the multiple documents, the heat input information was included in this permit.

Unit Description	Heat Input (Q)
No applicable units at this time.	0.00 MMBtu/hr
Heat Input (Q) for Project #169-0004-020C	0.00 MMBtu/hr

Total Installation Heat Input	
Heat Input (Q) for Project #169-0004-020A	261.35 MMBtu/hr
Heat Input (Q) for Project #169-0004-020B	2.50 MMBtu/hr
Heat Input (Q) for Project #169-0004-020C	0.00 MMBtu/hr
Heat Input (Q) for Project #169-0004-020E	16.65 MMBtu/hr
Heat Input (Q) for Project #169-0004-020F	64.00 MMBtu/hr
Heat Input (Q) for Project #169-0004-020G	199.89 MMBtu/hr
Total Installation Heat Input (Q)	544.39 MMBtu/hr
PM Allowable Emission Limitation for "New" Units ¹ $E = 1.31(Q)^{-0.338}$	0.16 lb PM/MMBtu
PM Allowable Emission Limitation for "Existing" Units ¹ $E = 0.90(Q)^{-0.174}$	0.30 lb PM/MMBtu

¹Compliance calculations for the units subject to 10 CSR 10-5.030 can be found in Attachment F.

Attachment F

There are no combustion units associated with this permit. However, for permit consistency throughout the multiple documents, the heat input information was included in this permit.

Unit	Fuel	Maximum Hourly Design Rate ¹	Emission Factor ²	Boiler Heat Capacity (MMBtu/hr)	Potential Emission Rate ³ (lbs/MMBtu)	Emission Limitation (lbs/MMBtu)
No applicable units at this time.						

¹Natural Gas: 1050 MMBtu/MMCF
Units: MMCF/hr
Fuel Oil: 140 MMBtu/10³ gallons
Units: 10³ gallons/hr

²Natural Gas: Emission Factor Source = AP42 Sec 1.4 (7/98)
Units: lb PM/MMCF
Fuel Oil: Emission Factor Source = AP42 Sec. 1.3 (9/78)
Units: lb PM/10³ gallons

³Potential PM Emission Rate = Max. Hourly Design Rate (units/hr) * Emission Factor (lb/units) * (1/Boiler Heat Capacity [MMBtu/hr])

Attachment K

Monthly VOC Tracking Record – Fuel Storage Tanks

This attachment may be used to help meet the record keeping requirements of Permit Condition EU2010-001.

This sheet covers the month of _____ in the year _____.

Building	Additional Identification	Working Losses (lbs VOC)	Breathing Losses (Lbs VOC)	Building	Additional Identification	Working Losses (lbs VOC)	Breathing Losses (Lbs VOC)
311				5021	Tank No. 3		
645				5074	Tank No. 1		
671				5074	Tank No. 2		
672				5086	Tank No. 1		
680				5086	Tank No. 2		
681				5122			
745				5124			
771	Tank No. 1			5125			
771				5130			
805				5138			
882				5138			
987				5267	Tank No. 1		
988				5267	Tank No. 2		
1021				5267	Tank No. 3		
1383				5267	Tank No. 4		
1390	Tank No. 1			10200			
1390	Tank No. 2			10225	Tank No. 1		
2210	Tank No. 1			10225	Tank No. 2		
2210	Tank No. 2			12310			
2210	Tank No. 3			12410			
2553				12710			
2581	Tank No. 1			13602			
4052				TA 207			
4052				TA 207			
4052				TA 401	Tank No. 1		
5021	Tank No. 1			TA 401	Tank No. 2		
5021	Tank No. 2						

Attachment K Continued

(a) Column Totals (lbs VOC):			(a) Column Totals (lbs VOC):		
(b) Summation of Total VOC Emissions Calculated for this Month, in Tons:					
(c) 12-Month VOC Emissions Total from Previous Month's Worksheet A, in Tons:					
(d) Monthly VOC Emissions Total (b) from Previous Year's Worksheet A, in Tons:					
(e) Current 12-month Total of VOC Emissions in Tons: [(b) + (c) - (d)]:					

Instructions: Choose an appropriate method to calculate the Working and Breathing Losses for each storage tank listed above.

- (a) Summation of the monthly VOC Working and Breathing Losses calculated for each storage tank in that column;
- (b) Summation of four (4) Working Losses and Breathing Losses Columns for the month divided by 2000 pounds per ton;
- (c) 12-Month VOC emissions total (e) from last month's Worksheet A for the Storage Tanks, in Tons;
- (d) Monthly VOC emissions total (b) from previous year's Worksheet A for the Storage Tanks, in Tons;
- (e) Calculate the new 12-month VOC emissions total. A 12-month total (e) of less than 25.0 tons of VOC from the above storage tanks indicates compliance.

STATEMENT OF BASIS

Permit Reference Documents

These documents were relied upon in the preparation of the operating permit. Because they are not incorporated by reference, they are not an official part of the operating permit.

1. Part 70 Operating Permit Application, received May 15, 1997;
2. 2000 Emissions Inventory Questionnaire, received April 2, 2001, revised May 25, 2001;
3. U.S. EPA document AP-42, *Compilation of Air Pollutant Emission Factors*; Volume I, Stationary Point and Area Sources, Fifth Edition;
4. Air Pollution Control Program Construction Permit #072003-022;
5. Air Pollution Control Program Construction Permit #062003-005;
6. Air Pollution Control Program Construction Permit #082000-006;
7. Air Pollution Control Program Construction Permit #082000-004;
8. Air Pollution Control Program Construction Permit #1099-001C;
9. Air Pollution Control Program Construction Permit #1099-001B;
10. Air Pollution Control Program Construction Permit #1099-001A;
11. Air Pollution Control Program Construction Permit #1099-001;
12. Air Pollution Control Program Construction Permit #0999-015;
13. Air Pollution Control Program Construction Permit #0699-002;
14. Air Pollution Control Program Construction Permit #0998-032;
15. Air Pollution Control Program Construction Permit #0897-013;
16. Air Pollution Control Program Construction Permit #0697-003;
17. Air Pollution Control Program Construction Permit #0895-030;
18. Air Pollution Control Program Construction Permit #0695-010A;
19. Air Pollution Control Program Construction Permit #0695-010;
20. Air Pollution Control Program Construction Permit #0495-013A;
21. Air Pollution Control Program Construction Permit #0495-013;
22. Air Pollution Control Program Construction Permit #0294-007A;
23. Air Pollution Control Program Construction Permit #0294-007;
24. Air Pollution Control Program Construction Permit #0891-003;
25. Air Pollution Control Program Construction Permit #0790-007;
26. Air Pollution Control Program Construction Permit #0590-004;
27. Air Pollution Control Program Construction Permit #0983-019;
28. Air Pollution Control Program Construction Permit #0979-030;
29. Air Pollution Control Program Construction Permit #0879-(010-011);
30. Air Pollution Control Program Construction Permit #0179-(006-016).

Applicable Requirements Included in the Operating Permit but Not in the Application

In the operating permit application, the installation indicated they were not subject to the following regulation(s). However, in the review of the application, the agency has determined that the installation is subject to the following regulation(s) for the reasons stated.

10 CSR 10-6.180, *Measurement of Emissions of Air Contaminants*,

This rule has been included in the operating permit in order to provide citing for the allowance of requests for emissions data results. On past forms issued by the Air Pollution Control Program, including the application for this permit, it was automatically marked as an administrative rule not required to be listed as an applicable

requirement. It is no longer judged to be solely administrative and is, therefore, included in the operating permit as a core permit requirement.

Other Air Regulations Determined Not to Apply to the Operating Permit

The Air Pollution Control Program (APCP) has determined the following requirements to not be applicable to this installation at this time for the reasons stated.

- 10 CSR 10-6.240, *Asbestos Abatement Projects – Registration, Notification, and Performance Requirements*.
This rule has been determined not to apply to the installation and omitted from the operating permit.

Construction Permit Revisions

The following revisions were made to construction permits for this installation:

No revisions were made to the construction permits issued for storage tanks.

NSPS Applicability

1. 10 CSR 10-6.070, *New Source Performance Regulations*
40 CFR Part 60, Subpart K – *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After June 11, 1973, and Prior to May 19, 1978*.

- a) All storage vessels for petroleum liquids with storage capacities exceeding 40,000 gallons for which construction, reconstruction, or modification commenced after June 11, 1973, and prior to May 19, 1978, listed under the Emission Units Without Limitations section of this permit are exempt from 40 CFR Part 60, Subpart K based on §60.111(b) which states:

Petroleum liquids means petroleum, condensate, and any finished or intermediate products manufactured in a petroleum refinery but does not mean Nos. 2 through 6 fuel oils as specified in ATSM D396-78, gas turbine fuel oils Nos. 2-GT through 4-GT as specified in ASTM D2880-78, or diesel fuel oils Nos. 2-D and 4-D as specified in ASTM D975-78.

If the permittee wishes to store petroleum liquids as defined by §60.111(b), in these storage vessels, then 40 CFR Part 60, Subpart K could be applicable.

- b) All the other storage vessels listed under the Emission Units Without Limitations section of this permit and those listed under EU3050, Fuel Storage Tanks, are exempt from 40 CFR Part 60, Subpart K based on §60.110(a), §60.110(c) and §60.111(b) which state:

§60.110(a): Except as provided in §60.110(b), the affected facility to which this subpart applies is each storage vessel for petroleum liquids which has a storage capacity greater than 151,416 liters (40,000 gallons).

§60.110(c): Subject to the requirements of this subpart is any facility under paragraph (a) of this section, §60.110, which:

- (1) Has a capacity greater than 151,416 liters (40,000 gallons), but not exceeding 246,052 liters (65,000 gallons) and commences construction or modification after March 8, 1974, and prior to May 19, 1978.
- (2) Has a capacity greater than 246,052 liters (65,000 gallons) and commences construction or modification after June 11, 1973, and prior to May 19, 1978.

§60.111(b): Petroleum liquids means petroleum, condensate, and any finished or intermediate products manufactured in a petroleum refinery but does not mean Nos. 2 through 6 fuel oils as specified in ATSM D396-78, gas turbine fuel oils Nos. 2-GT through 4-GT as specified in ASTM D2880-78, or diesel fuel oils Nos. 2-D and 4-D as specified in ASTM D975-78.

2. 10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart Ka – *Standards of Performance for Storage Vessels for Petroleum Liquids for Which Construction, Reconstruction, or Modification Commenced After May 18, 1978, and Prior to July 23, 1984.*

- a) The storage vessels for petroleum liquids with storage capacities exceeding 40,000 gallons for which construction, reconstruction, or modification commenced after May 18, 1978, and prior to July 23, 1984, listed under the Emission Units Without Limitations section of this permit is exempt from 40 CFR Part 60, Subpart Ka based on §60.111a(b) which states:

Petroleum liquids means petroleum, condensate, and any finished or intermediate products manufactured in a petroleum refinery but does not mean Nos. 2 through 6 fuel oils as specified in ATSM D396-78, gas turbine fuel oils Nos. 2-GT through 4-GT as specified in ASTM D2880-78, or diesel fuel oils Nos. 2-D and 4-D as specified in ASTM D975-78.

If the permittee wishes to store petroleum liquids as defined by §60.111a(b), in these storage vessels, then 40 CFR Part 60, Subpart Ka could be applicable.

- b) All the other storage vessels listed under the Emission Units Without Limitations section of this permit and those listed under EU2010, Fuel Storage Tanks, are exempt from 40 CFR Part 60, Subpart Ka based on §60.110a(a) and §60.111a(b) which state:

§60.110a(a): Except as provided in paragraph (b) of this section, §60.110a, the affected facility to which this subpart applies is each storage vessel for petroleum liquids which has a storage capacity greater than 151,416 liters (40,000 gallons) and for which construction is commenced after May 18, 1978.

§60.111a(b): Petroleum liquids means petroleum, condensate, and any finished or intermediate products manufactured in a petroleum refinery but does not mean Nos. 2 through 6 fuel oils as specified in ATSM D396-78, gas turbine fuel oils Nos. 2-GT through 4-GT as specified in ASTM D2880-78, or diesel fuel oils Nos. 2-D and 4-D as specified in ASTM D975-78.

3. 10 CSR 10-6.070, *New Source Performance Regulations*

40 CFR Part 60, Subpart Kb – *Standards of Performance for Volatile Organic Liquid Storage Vessels (Including Petroleum Liquid Storage Vessels) for Which Construction, Reconstruction, or Modification Commenced After July 24, 1984.*

All the storage vessels listed under EU2010, Fuel Storage Tanks, and the Emission Units Without Limitations section of this permit; are exempt from 40 CFR Part 60, Subpart Kb based on §60.110b(a) which states:

Except as provided in paragraph (b) of this §60.110b, the affected facility to which this subpart applies is each storage vessel with a capacity greater than or equal to 75 cubic meters (19,800 gallons) that is used to store volatile organic liquids (VOL) for which construction, reconstruction, or modification is commenced after July 23, 1984.

MACT Applicability

Currently, there are no MACTs that apply to the emission units covered under this permit.

NESHAP Applicability

40 CFR Part 61, Subpart M, *National Emission Standard for Asbestos*, applies to the installation because of the renovation and demolition parts of the subpart which makes the subpart applicable to all sources. It is included as a core permit requirement.

Other Regulatory Determinations

1. The units listed in the "Emission Units Without Limitations" section in the front of this permit either have no applicable regulations associated with them or are considered insignificant activities by the operating permit application.
2. 10 CSR 10-3.060, *Maximum Allowable Emissions of Particulate Matter from Fuel Burning Equipment Used for Indirect Heating*. Attachments E and F represent emission limit and compliance calculations necessary to verify compliance with this regulation. There are no combustion units associated with this permit. However, for permit consistency throughout the multiple operating permits, the heat input information was included in this permit.
3. 10 CSR 10-6.170, *Restriction of Particulate Matter to the Ambient Air Beyond the Premise of Origin*, is applicable to the installation. Due to the size and unique geographical aspects of the installation it is highly unlikely that the installation will ever exceed the emission limitations of 10 CSR 10-6.170, therefore no monitoring, record keeping and reporting is necessary unless required by the Director.
4. Several Air Pollution Control Program Construction Permits have been issued to various storage tanks associated with this Title V permit. However, only one Air Pollution Control Program Construction Permit #052001-011 was included in this permit for the following reasons.
 - a) Special Condition 1 of Air Pollution Control Program Construction Permit #052001-011 specifically superseded the storage tank requirements of Air Pollution Control Program Construction Permit #0294-007, #0294-007A and #0895-030.
 - b) Air Pollution Control Program Construction Permit #0179-012, #0179-013, #0179-014, #0179-015 and #0179-016 were issued for storage tanks at Building 745. Those tanks have since been removed (1994); and therefore, those permits were not included in the Title V permit. In addition, the listed permits imposed no requirements on the storage tanks.
 - c) Air Pollution Control Program Construction Permit #0179-006, #0179-007, #0179-008, #0179-009, #0179-010 and #0179-011 impose no requirements on the storage tanks they were issued for. As such, they were not included in the Title V permit.
5. It was determined that the U.S. Army Engineering Center – Fort Leonard Wood and the AAFES Fueling Station must be considered separate installations for this permit. The tanks associated with the AAFES Fueling Station are not permitted with the U.S. Army Engineering Center – Fort Leonard Wood installation.

Other Regulations Not Cited in the Operating Permit or the Above Statement of Basis

Any regulation which is not specifically listed in either the Operating Permit or in the above Statement of Basis does not appear, based on this review, to be an applicable requirement for this installation for one or more of the following reasons:

1. The specific pollutant regulated by that rule is not emitted by the installation;
2. The installation is not in the source category regulated by that rule;
3. The installation is not in the county or specific area that is regulated under the authority of that rule;
4. The installation does not contain the type of emission unit which is regulated by that rule;
5. The rule is only for administrative purposes.

Should a later determination conclude that the installation is subject to one or more of the regulations cited in this Statement of Basis or other regulations which were not cited, the installation shall determine and demonstrate, to the APCP's satisfaction, the installation's compliance with that regulation(s). If the installation is not in compliance with a regulation which was not previously cited, the installation shall submit to the APCP a schedule for achieving compliance for that regulation(s).

Prepared by:



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